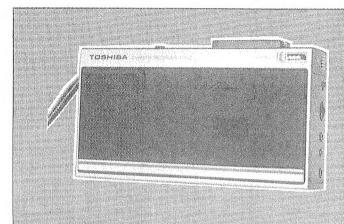
CASSETTE



SPECIFICATIONS

Track system:

Recording system:

Erasure system:

Recommended tapes:

Tape speed:

Frequency response:

Speaker:

Input terminal:

Monaural

AC bias

Magnet erasure

C30 - C120 cassette tapes

4.8 cm/sec.

150 Hz to 8 kHz

50 mm dynamic speaker

External microphone terminal

[MIC] 3.5 mm

Impedance: 400 ohm to 2,2k ohm

Input level: 0.5 mV

Output terminal:

Remote terminal:

Maximum output power:

Power supply:

Weight:

Earphone terminal 3,5 mm Remote terminal 2.5 mm

400 mW

DC 6V (SUM-3 "AA" x 4)

External power source supplied

to the [DC IN 6V] jack

(5.0mm dia, centre contact

positive)

Dimensions (W x H x D): 163 x 88 x 35 mm

420 g (including batteries)

Specifications are subject to change without notice due to improvements.

TA, TG, AY, YY

1. BLOCK DIAGRAM

U N B If then then

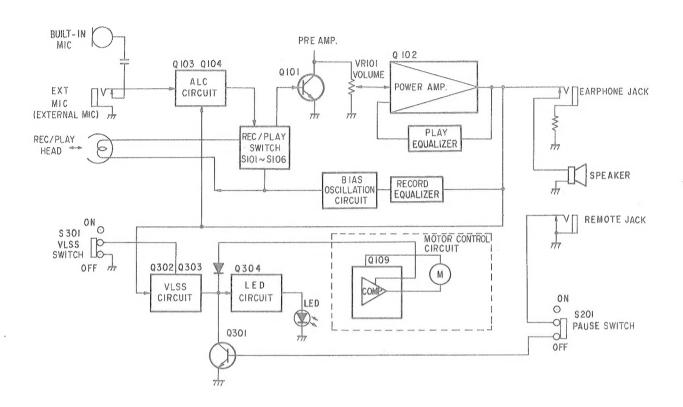


Figure 1.

Name Label TA, TC, AY, YY



2. OPERATING CONTROLS

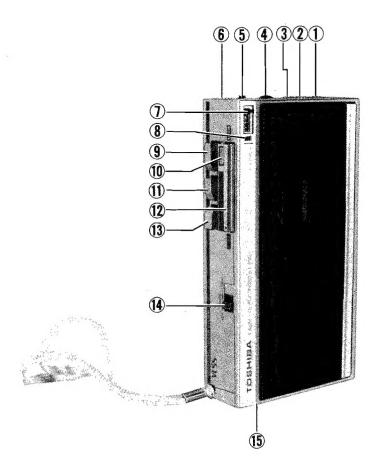


Figure 2.

Control Features

- 1 [EAR] Earphone Jack
- 2 [REMOTE] Jack
- (3) [MIC] Microphone Jack
- (4) [VLSS-MIC SENS/VOLUME] Control (5) [VLSS ON/OFF] Switch
- 6 Built-in Microphone
- Tape Counter and Reset Button
- 8 [BATT/VLSS] Indicator
- [

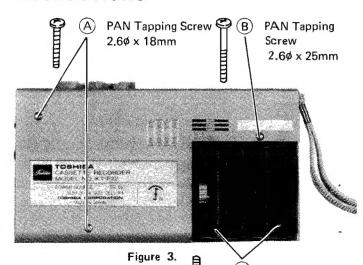
 STOP/EJECT] Button

- (10) [● REC] Record Button
- (1) [► REVIEW] Rewind/Review Button
- (2) [◀PLAY] Button
- (13) [◀CUE] Fast-Forward/Cue Button
- (4) [PAUSE] Switch
- (5) [DC IN 6V] Jack

3. DISASSEMBLY INSTRUCTIONS

■ FRONT CABINET REMOVAL

- 1. Remove the battery cover.
- 2. Remove two screws (A) and one screw (B) securing the cabinet back and 2 screws (C) inside the battery box.
- Remove the lead wire of the speaker to detach the cabinet front.



■ CABINET BACK REMOVAL

- 1. Remove the cabinet front.
- 2. Remove two screws \bigcirc and two soldering points \bigcirc on the motor control board.
- 3. Remove the pause switch and motor control P.C. board.
- 4. Then detach the cabinet back.

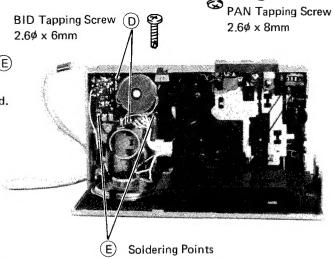
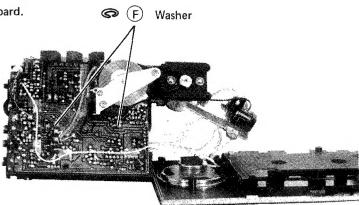


Figure 4.

- MAIN P.C. BOARD CHECK
- 1. Remove the mechanism assembly from the cabinet back.
- 2. Remove two washers F securing the main P.C. board and mechanism assembly to reveal the main P.C. board.



■ POWER CONSUMPTION

While recording approx. 120 \sim 140mA (without earphone).

Figure 5.

■ TORQUE

PLAY $33 \sim 63g.cm$

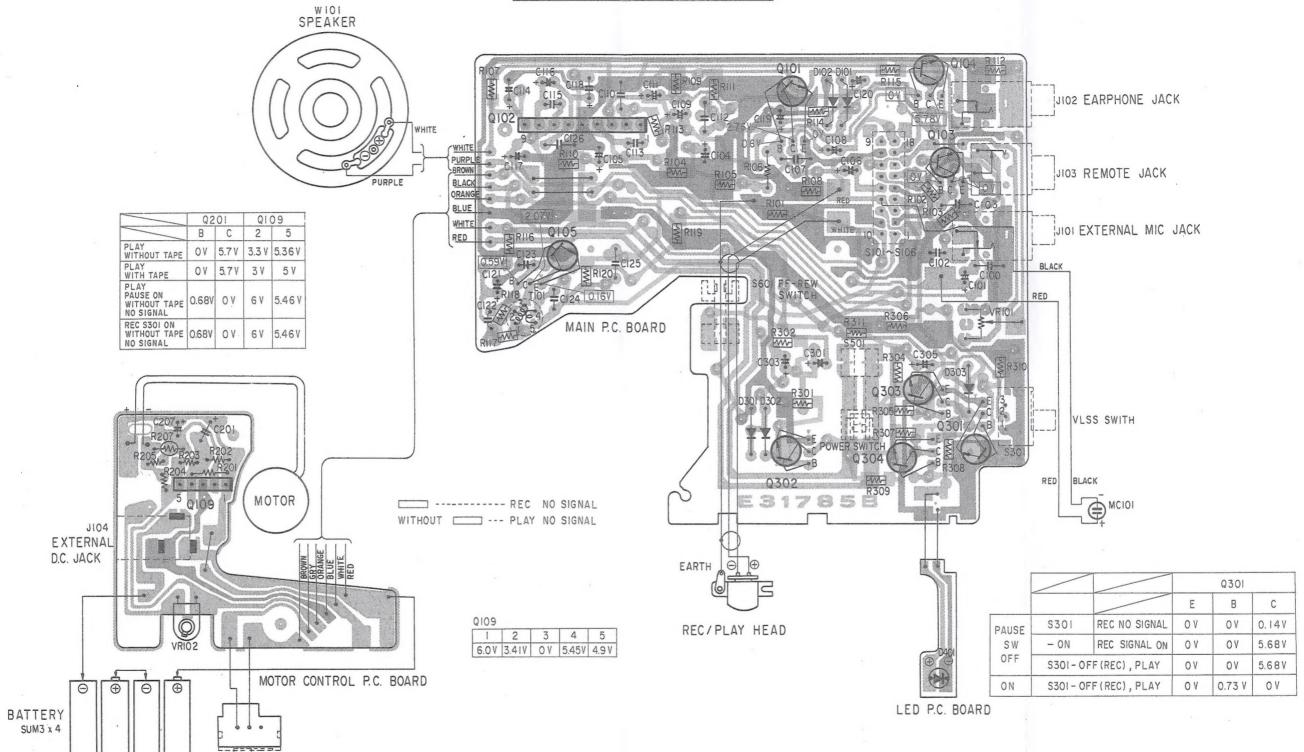
FF 40g.cm or more

REW 60g-cm or more

K1-P22 K1-P22

4. ELECTRICAL PARTS LOCATIONS

0.74V 2.87V 2.88V 2.69V 0 V 2.68V 6.0V 5.7V 2.9V



		Q302			0303			Q304			Q109	MOTOR
		Ε	В	C	E	В	C	E	В	С	5	MOTOR
S301-0N	REC NO SIGNAL	O.A.	OV	1.231	OV	0.667	0.141	OV	0.14 V	6 V	0.75	OFF
	REC SIGNAL ON	OV	0.54	0.071	OV	0.05V	5.68V	1.847	2.52V	1.971	4.91	ON
S301-0FF	REC PLAY	OV	0.491	01	OV	OV	5.681	1.841	2.52V	1.971	4.94	ON

Figure 6.

S201 PAUSE SWITCH

5. SCHEMATIC DIAGRAM

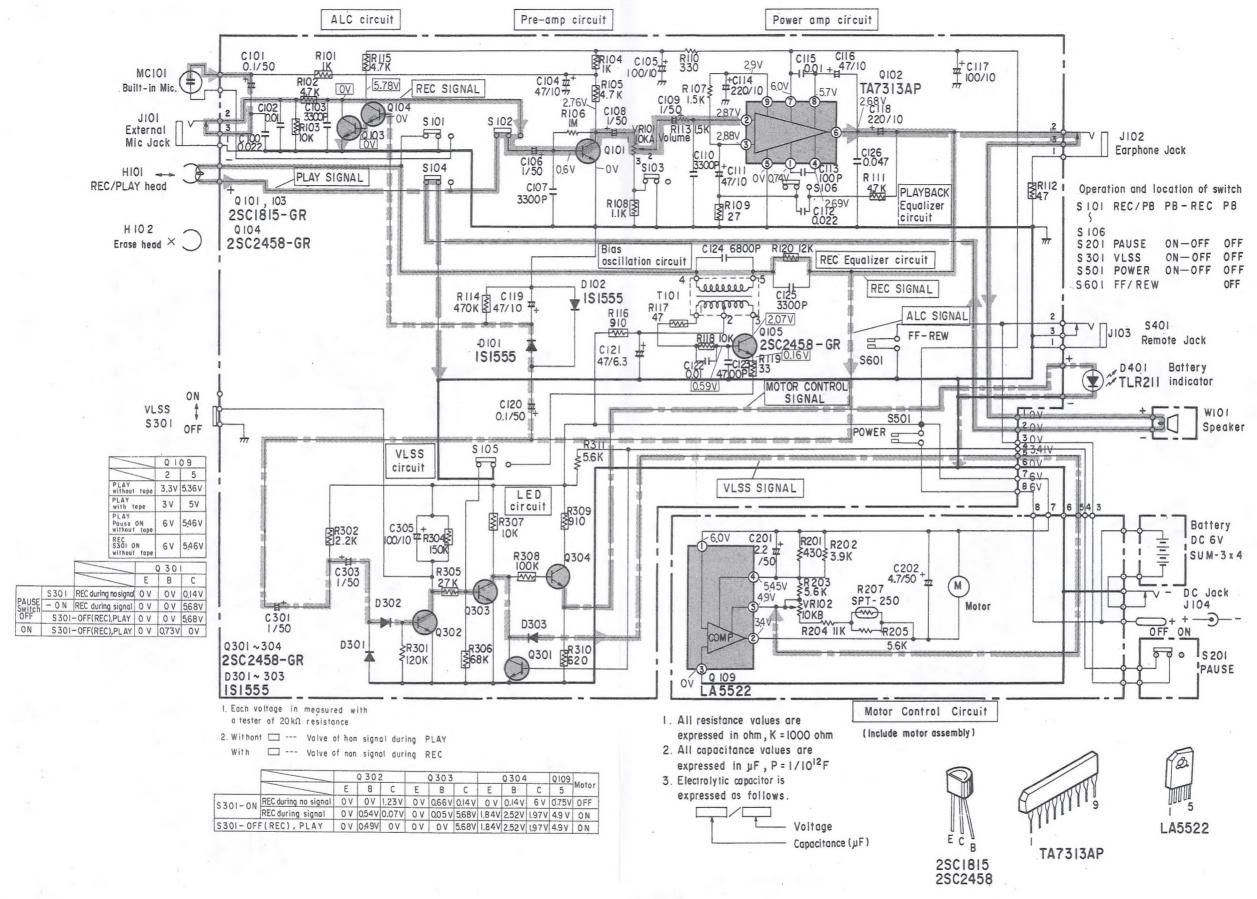
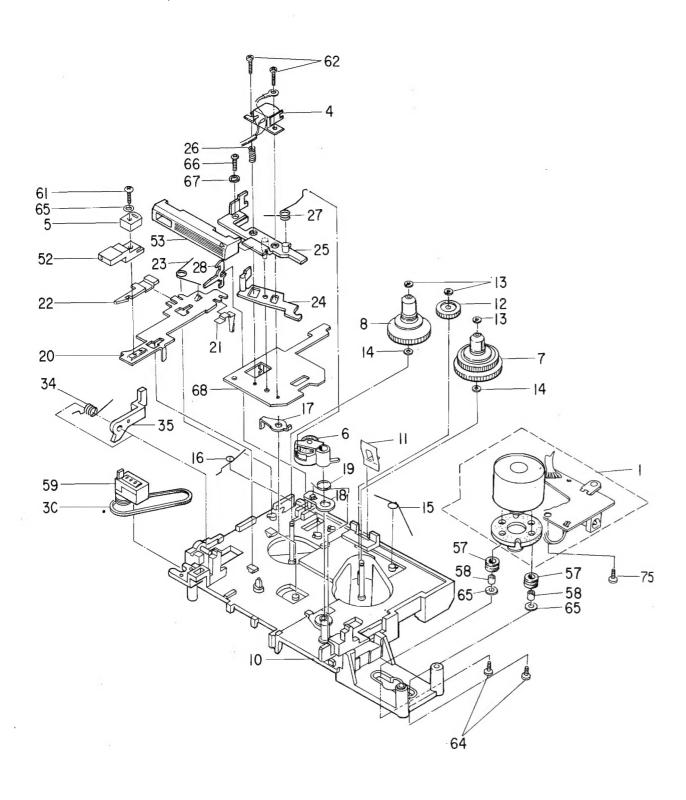


Figure 7.

6-1. MECHANISM EXPLODED VIEW(UPPER)

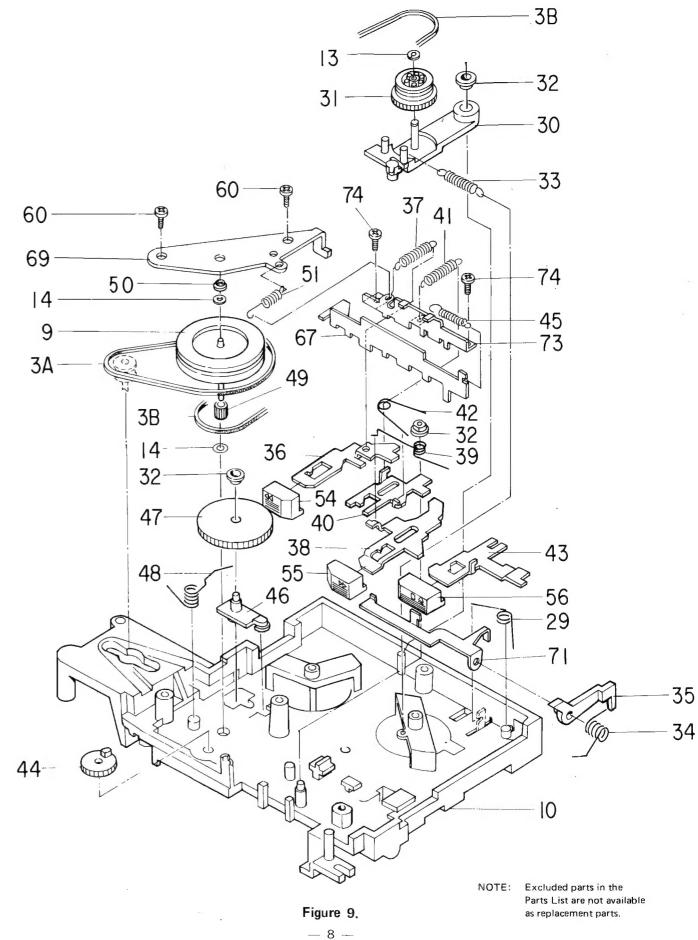


NOTE: Excluded parts in the

Figure 8. - 7 --

Parts List are not available as replacement parts.

6-2. MECHANISM EXPLODED VIEW (LOWER)



7. CABINET EXPLODED VIEW

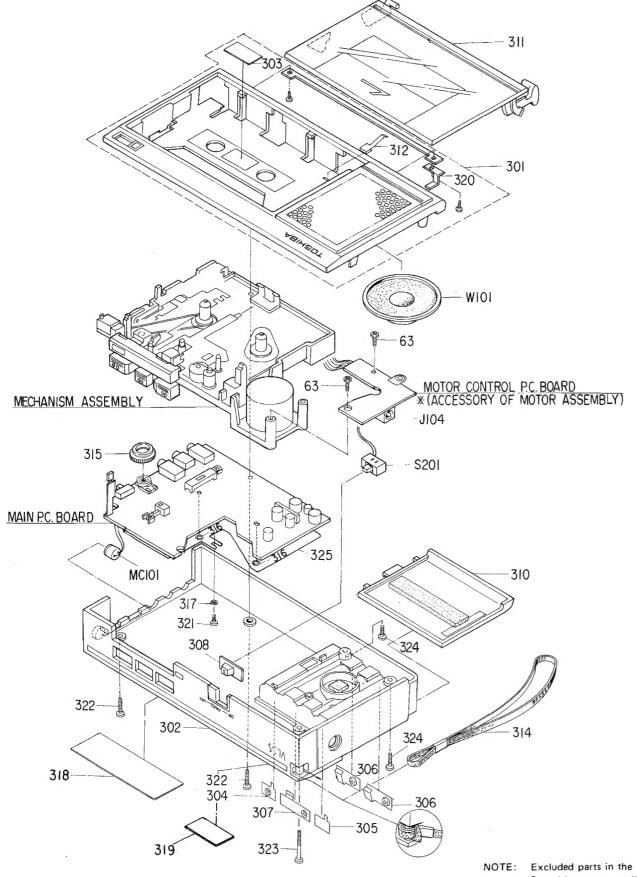


Figure 10.

-9 -

Excluded parts in the Parts List are not available as replacement parts.

8. PARTS LIST

3A :	MECHA 25791625	NUCLA DADTO	50	05501050	
3A :			50		Holder, Capstan
3A :	25791625		51		Spring
3B		Motor Ass'y	52		
	25755579	Belt, Motor Drive	53	25784067	Button, PLAY
20	25755578	Belt, Take-up	54		Button, FF
3C	25755580	Belt, Tape Counter	55	25784073	Button, REW
4	22217430	Head, REC/PLAY	56	25784076	Button, Stop
	22218264	Head, Erase	57		Cushion
	25717572		58		Spacer
		Reel Plate Ass'y, Right	59		Tape Counter
		Reel Plate Ass'y, Left	60		
	25717571		61		Screw, 20 x 12mm, BID
10	25791597	Mechanism Chassis Ass'y	62	22701290	Screw, 2¢ x 6mm, PAN
11 :	25779339	Spring	63		
12	25756370	Gear, FF	65		Washer, 2¢
13	25766050	Washer, 1.5¢	74	22701311	Screw, 20 x 5mm, BID, Tapping
14	25766042	Washer, 2.1¢	75	22707317	Screw, 2.6¢ x 5mm, BID, Tapping
		Spring		CARI	NET PARTS
16	25778111				
17	25784062	Lever, CUE/REW	301		Cabinet Ass'y, Front
18	25784063	Lever, ASO	302		Cabinet Ass'y, Back
19	25778112	Spring	303		Reflector Cassette Lid
20	25784064	Lever, REC	304		Battery Contact 1
21	25779340	Spring	305	25839311	Battery Contact 2
22	25734488	Prevention Board	306	25839312	Battery Contact 3
23	25778113	Spring, REC Lever	307	25839313	Battery Contact 4
24	25784066	Lever, ASO	308	25886002	Knob, PAUSE
25	25781268	Head Holder	310	25882218	Battery Cover Ass'y
26	25777243	Spring, Azimuth	311	25881938	Cassette Cover Ass'y
27	25778114	Spring	312	25779338	Spring, Cassette Cover
28	25784068	Lever, Miserase	314	22993054	Hand Strap
29	25778115	Spring	315	25886001	Knob, VOLUME
30	25713573	MTG. Plate Ass'y, Take-up Pulley	316	25766050	Washer, 1.5¢
31	25758158	Take-up Pulley	317	22703318	Washer, 2¢
32	25761497	Bush, 2.5¢	318	25808550	Name Label
33	25776614	Spring	319	25808551	Label, Stacker
	25778116		321	22707015	Screw, 2¢ x 2mm, Special
	25784069		322	22707984	Screw, 2.69 x 18mm, PAN,
	25784070	Lever, FF			Tapping
	25776592	Spring	323	22707985	Screw, 2.6ø x 25mm, PAN,
	25784072	Lever, REW			Tapping
	25778117	Spring	324	22707986	Screw, 2.69 x 8mm, PAN,
	25784074	Lever, PLAY			Tapping
	25776593	Spring, PLAY Lever			
		Spring, REW			- 100 AND DIODE
	25784075		'	RANSISTOR	S, ICS AND DIODE
	25756367	Gear, ASO	Q101		Transistor, 2SC1815-GR
45	25776594	Spring, Lock Lever	Q102		IC, TA7313AP
	25737047	MTG. Take-up Gear	Q103		Transistor, 2SC1815-GR
47	25756368	Gear, Take-up	Q104, 105	A6332440	Transistor, 2SC2458-GR
1	25778119		Q109		IC, LA5522
	25756369		Q301, 302, 303, 304	A6332440	Transistor, 2SC2458-GR



Symbol No.	Part No.	Description	Symbol No.	Part No.	Description			
D101, 102	A7246703	Diode, 1S1555V	C126	22360331	BL, 0.047mfd, 25V, M			
D301, 302,	A7246703	Diode, 1S1555V	C301	22440441	EL, 1mfd, 50V			
303			C303	22440441	EL, 1mfd, 50V			
D401	A8603170	Diode, LED, TLR-211, RED	C305		EL, 100mfd, 10V			
	ELECTI	RICAL PARTS	RESISTORS					
T101	22235229	Coil, Oscillator		re Carbon fi	im 1/8W, ±5%, unless otherwise			
S101~106	22196267	Switch, Slide, PLAY/REC	noted.					
S201, 301	22196268	Switch, Slide, PAUSE, VLSS	2. PRC is short for the printed resistor circuit. If replacement of the resistor in PRC is required, places use the					
S501	22196269	Switch, Leaf, Power	ment of the resistor in PRC is required, please use the					
S601	22196291	Switch, Leaf, FF, REW	substitution fixed carbon film resistor of 1/8W, ±5%					
J101, 102	22198022	Jack, 3.5¢, EXT MIC, Earphone	according to the following list.					
J103	22198023	Jack, 2.5¢, Remote	K=1000, M=1000000					
J104	22198024	Jack, EXT DC Power	R101		1K ohm, (PRC)			
MC101	22154231	Built-in Microphone	R102		4.7K ohm, (PRC)			
W101		Speaker, 5cm, 8 ohm	R103		10K ohm, (PRC)			
EP01	22192333		R104		1K ohm, (PRC)			
EP02	22192307		R105		4.7K ohm, (PRC)			
VR101	22611407	Variable, 10K ohm, Volume	R106	22540450				
			R107	22540512				
	CAI	PACITORS	R108		1K ohm, (PRC)			
CAPACITORS K=±10%, M=±20%,			R109		27 ohm, (PRC)			
	•	or are DC 50V unless other wise	R110		330 ohm, (PRC)			
noted.	s or Capacito	or are DC 50V unless other wise	R111		4.7K ohm, (PRC)			
	CD-Caram	is Disk El -Electrolytic	R112 R113	22550165	47 ohm, (PRC)			
Appleviations	Abbreviations: CD=Ceramic Disk, EL=Electrolytic BL=Barrier Layer, PS=Polystyrene				1.5K ohm			
T	-		R114		470K ohm, (PRC)			
C100		CT, 0.022mfd, 25V, M	R115		4.7K ohm, (PRC)			
C101		EL, 0.1mfd, 50V	R116		1K ohm, (PRC)			
C102		BL, 0.01mfd, 25V, M	R117		47 ohm, (PRC)			
C103		CD, 3300pF, K	R118		10K ohm, (PRC)			
C104		EL, 47mfd, 10V	R119		33 ohm, (PRC)			
C105		EL, 100mfd, 10V	R120		12K ohm, (PRC)			
C106	22440441	EL, 1mfd, 50V	R301		120K ohm			
C107	22349332		R302		2.2K ohm, (PRC)			
C108, 109		EL, 1mfd, 50V	R304		150K ohm, G, (PRC)			
C110		CD, 3300pF, K	R305	22550197	27K ohm, (PRC)			
C111		EL, 47mfd, 10V	R306	22550202				
C112		CT, 0.022mfd, 25V, M	R307		10K ohm, (PRC)			
C113		CD, 100pF, K	R308		100K ohm, (PRC)			
C114		EL, 220mfd, 10V	R309	22550181	1K ohm, (PRC)			
C115	22360344		R310	22550179	680 ohm, (PRC)			
C116 C117	22440255 22440257		R311	22550190	5.6K ohm			
C117	22440404			AC	CESSORIES			
C119	22440255	EL, 47mfd, 10V	AC01	22903637	Owner's Manual, TA			
C120	22440283		AC01	22903638	Owner's Manual, TC			
C120	22440263	EL, 47mfd, 6.3V	AC01	22903639				
C121	22360344	BL, 0.01mfd, 25V, M	AC01	22903640				
C122		•		22303040	Omici s maridal, 1 1			
	22360325 22321067	BL, 4700pF, 25V, K						
C124 C125	22349332	PS, 6800pF, J CD, 3300pF, K						
0120	ZZ34933Z	ου, 3300με, κ						
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TOSHIBA CORPORATION 2-1, GINZA 5-CHOME, CHUO-KU, TOKYO 104, JAPAN